Abstract Of The Invention

A software components and methods are provided for implementation of a client side HTTP stack, which provide high performance and scalability. Multithreading and completion ports are employed in the client side HTTP layer in association with sockets and a thread pool, thereby providing support for business-to-business and other more recent client side applications which create numerous requests. The invention further comprises a dedicated scheduler thread adapted to activate an object scheduled to begin sending requests at a specific time, as well as a dedicated DNS thread used for resolving symbolic domain names into IP addresses. In addition, the client side HTTP stack implementation comprises a dedicated timeout thread with a list of active sockets and timers associated with each socket to allow finer grain control over socket timeout periods.